



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Patent application of : Atty. Docket: 8945-35 (176245)  
Brian P. Couchey *et al.* :  
 :  
 :  
'Serial No.: 10/731,754 : Group Art Unit:  
 :  
Filed: November 10, 2003 : Examiner: Not yet assigned  
 :  
For: Spool Having Reversing Spiral Guide :  
 :

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

This Information Disclosure Statement is being submitted pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98.

This Statement is being within three months of the filing date for the above-identified application. Therefore, no certification, petition or fee is required.

**CERTIFICATE OF MAILING  
UNDER 37 C.F.R. 1.8(a)**

I hereby certify that this paper, along with any paper referred to as being attached or enclosed, is being deposited with the United States Postal Service on the date indicated below, with sufficient postage, as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

BY

Katie Keogh

DATE:

April 2, 2004

The following references are noted as being potentially relevant to the subject matter of the present application.

#### **U.S. PATENTS**

218,722	4,653,331	4,938,432	5,379,965
1,456,108	4,657,203	5,067,665	5,593,101
2,501,596	4,696,438	5,071,082	5,718,397
2,811,322	4,715,549	5,100,078	5,890,674
3,610,549	4,753,399	5,165,543	5,895,005
3,948,458	4,781,461	5,193,761	5,908,172
4,219,274	4,793,708	5,205,510	5,971,316
4,387,863	4,796,830	5,220,632	6,098,918
4,445,649	4,802,270	5,236,145	
4,602,751	4,880,182	5,335,874	

#### **FOREIGN PATENT DOCUMENTS**

German DE29807873U

Japan JP2000219433A

German Publication DE 29807873U, copy enclosed, appears to disclose a spool having opposite end flanges.

Japanese Publication JP 2000219433A, copy enclosed, appears to disclose a winding barrel for cable having opposite end flanges.

U.S. Pat. No. 4,387,863 (Edmonston et al.) discloses a spool with a double end flange. An end of a cable is led through a slot or groove in the inner flange. The cable is wound around a short barrel between the two flanges.

U.S. Pat. No. 4,602,751 (Vogel) discloses a spool having a conical surface on the inner portion of the flanges and a groove that spirals out, both radially and axially, across the flange surface.

U.S. Pat. No. 4,657,203 (Crawford) discloses a spool for optical fiber with a core occupied by radial ribs. An end of the fiber is led through an opening in the barrel and into the

core. The fiber end is then laid in a loop in notches on the ends of the ribs and held in place by an end cap.

U.S. Pat. No. 4,696,438 (Myers) discloses a spool for optical fiber in which an end of the fiber is led out through a slot in the end flange.

U.S. Pat. No. 4,880,182 (Gelfman) discloses a spool (Figs. 7-11) for optical fiber in which an end of the cable is led through an opening into the core, where a loose coil of the fiber is stored.

U.S. Pat. No. 5,236,145 (Floury et al.) discloses a spool in which an end of the cable is led out through a hole in the flange.

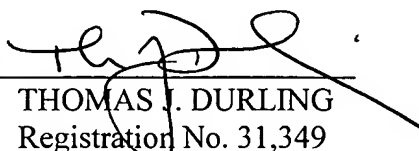
U.S. Pat. No. 2,811,322 (Wilkinson) discloses a spool having a slot within radial ribs of the flange and a clamp for securing an end of the cable.

U.S. Pat. No. 5,890,674 (Major) discloses a reel with a guide on the inside of one end flange that leads the inner end of the cable out radially along a gentle spiral.

The Examiner is respectfully requested to review each of the above-identified references and make them of record in the instant application as required by M.P.E.P. §609. It is requested that the Examiner initial a copy of Form 1449 and return it to the undersigned.

Respectfully submitted,

BRIAN P. COUCHEY *et al.*

BY:   
THOMAS J. DURLING  
Registration No. 31,349  
Drinker Biddle & Reath LLP  
One Logan Square  
18<sup>th</sup> and Cherry Sts.  
Philadelphia, PA 19103-6996  
Tel: 215-988-3307  
Fax: 215-988-2757  
Attorney for Applicants

SHEET 1 OF 4

SUBSTITUTE FORM PTO-1449  <b>INFORMATION DISCLOSURE CITATION</b>	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. <b>8945-35 (176245)</b>	SERIAL NO. <b>10/731,754</b>
	APPLICANT: <b>Brian P. Couchey et al.</b>		
	FILING DATE <b>December 8, 2003</b>	GROUP <b>Not yet assigned</b>	

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	AA	218,722	8/1879	Eldridge			
	AB	1,456,108	5/1923	Johannesen			
	AC	2,501,596	3/1950	Denny			
	AD	2,811,322	10/1957	Wilkinson			
	AE	3,610,549	10/1971	Wennerstrom			
	AF	3948458	4/1976	Beck et al.			
	AG	4,219,274	8/1980	Dabby et al.			
	AH	4,387,863	6/1983	Edmonston et al.			
	AI	4,445,649	5/1984	Yataki et al.			
	AJ	4,602,751	7/1986	Vogel			

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
	AK	DE29807873U	Sept. 1998	Germany				X
	AL	JP2000219433A	Aug. 2000	Japan			x-abstract only	

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

SUBSTITUTE FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. <b>8945-35 (176245)</b>	SERIAL NO. <b>10/731,754</b>
INFORMATION DISCLOSURE CITATION		APPLICANT: <b>Brian P. Couchey et al.</b>	
		FILING DATE <b>December 8, 2003</b>	GROUP <b>Not yet assigned</b>

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	BA	4,653,331	3/1987	Inouye et al.			
	BB	4,657,203	4/1987	Crawford			
	BC	4,696,438	9/1987	Myers			
	BD	4,715,549	12/1987	Travlos			
	BE	4,753,399	6/1988	Baum			
	BF	4,781,461	11/1988	Baron et al.			
	BG	4,793,708	12/1988	Bednarz			
	BH	4,796,830	1/1989	Gelfman			
	BI	4,802,270	2/1989	Kashiwaya et al.			
	BJ	4,880,182	11/1989	Gelfman			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

SUBSTITUTE FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. <b>8945-35 (176245)</b>	SERIAL NO. <b>10/731,754</b>
<b>INFORMATION DISCLOSURE CITATION</b>		APPLICANT: <b>Brian P. Couchey et al.</b>	
		FILING DATE <b>December 8, 2003</b>	GROUP <b>Not yet assigned</b>

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	CA	4,938,432	7/1990	Kurt et al.			
	CB	5,067,665	11/1991	LoStracco et al.			
	CC	5,071,082	12/1991	Lefevre et al.			
	CD	5,100,078	3/1992	Clark			
	CE	5,165,543	11/1992	Heyda et al.			
	CF	5,193,761	3/1993	Fritz et al.			
	CG	5,205,510	4/1993	Schotter			
	CH	5,220,632	6/1993	LoStracco			
	CI	5,236,145	8/1993	Floury et al.			
	CJ	5,335,874	8/1994	Shrum et al.			

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED	
<b>EXAMINER:</b> Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

SUBSTITUTE FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. <b>8945-35 (176245)</b>	SERIAL NO. <b>10/731,754</b>
<b>INFORMATION DISCLOSURE CITATION</b>		APPLICANT: <b>Brian P. Couchey et al.</b>	
		FILING DATE <b>December 8, 2003</b>	GROUP <b>Not yet assigned</b>

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	DA	5,379,965	1/1995	Isler et al.			
	DB	5,593,101	1/1997	Varga			
	DC	5,718,397	2/1998	Stevens			
	DD	5,890,674	4/1999	Major			
	DE	5,895,005	4/1999	Simchock			
	DF	5,908,172	6/1999	Pierro et al.			
	DG	5,971,316	10/1999	Kim			
	DH	6,098,918	8/2000	Simchock			

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER		DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		



SHEET 1 OF 4

SUBSTITUTE FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  <b>INFORMATION DISCLOSURE CITATION</b>	ATTY. DOCKET NO. <b>8945-35 (176245)</b>	SERIAL NO. <b>10/731,754</b>
	APPLICANT: <b>Brian P. Couchey et al.</b>	
	FILING DATE <b>December 8, 2003</b>	GROUP <b>Not yet assigned</b>

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	AA	218,722	8/1879	Eldridge			
	AB	1,456,108	5/1923	Johannesen			
	AC	2,501,596	3/1950	Denny			
	AD	2,811,322	10/1957	Wilkinson			
	AE	3,610,549	10/1971	Wennerstrom			
	AF	3948458	4/1976	Beck et al.			
	AG	4,219,274	8/1980	Dabby et al.			
	AH	4,387,863	6/1983	Edmonston et al.			
	AI	4,445,649	5/1984	Yataki et al.			
	AJ	4,602,751	7/1986	Vogel			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
	AK	DE29807873U	Sept. 1998	Germany				X
	AL	JP2000219433A	Aug. 2000	Japan			x-abstract only	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		



SUBSTITUTE FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  <b>INFORMATION DISCLOSURE CITATION</b>	ATTY. DOCKET NO. <b>8945-35 (176245)</b>	SERIAL NO. <b>10/731,754</b>
	APPLICANT: <b>Brian P. Couchey et al.</b>	
	FILING DATE <b>December 8, 2003</b>	GROUP <b>Not yet assigned</b>

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	BA	4,653,331	3/1987	Inouye et al.			
	BB	4,657,203	4/1987	Crawford			
	BC	4,696,438	9/1987	Myers			
	BD	4,715,549	12/1987	Travlos			
	BE	4,753,399	6/1988	Baum			
	BF	4,781,461	11/1988	Baron et al.			
	BG	4,793,708	12/1988	Bednarz			
	BH	4,796,830	1/1989	Gelfman			
	BI	4,802,270	2/1989	Kashiwaya et al.			
	BJ	4,880,182	11/1989	Gelfman			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		